

## Rockhurst University Mathematics Problem of the Month

Congratulations to Justin Trent, winner of February's contest. He wins a prize from the POM puzzle collection. Honorable mention goes to Andrew Silver, Doyle Witt, Br. Glenn Kerfoot, Peter Simone, and Fr. Kinerk. The contest is open to any currently enrolled Rockhurst student. The winner will be chosen according to who has the best solution (not just answer) to the problem. Ties will be resolved by considering the order in which the solutions were received.

Solutions should be submitted to Keith Brandt (Richardson 120) by the end of the month. Winners receive wonderful prizes, so give these problems some thought!

### Problems For March 2006:

1. You have three different colors available. Color the numbers 1 through 13 in such a way that the equation  $x + y = z$  is never satisfied for numbers of the same color. For example, if 1 is red, then 2 cannot be red since  $1 + 1 = 2$ .
2. Chris and Pat start at the same time and drive toward each other's starting point along the same highway at constant but different velocities. After they cross paths, Chris takes 10 minutes to reach Pat's starting point, and Pat takes 22.5 minutes to reach Chris's starting point. How much time does each person's journey take?